I CLAIM AS MY INVENTION:

- 1. A device for transmitting and receiving data for remotely controlling a hearing device, comprising:
 - a transmission device comprising a transmitter coil to transmit data;
 - a reception device comprising a receiver coil for receiving data; and
 - a common core on which both said transmitter coil and said receiver coil are wound, also causing said receiver coil to be excited for transmission of data by said transmitter coil.
- 2. A device as claimed in claim 1 wherein said reception device comprises a receiver circuit, and a protective circuit connected between said receiver circuit and said receiver coil to separate said receiver circuit from said receiver coil.
- 3. A device as claimed in claim 2 wherein said protective circuit comprises a capacitor and a parallel circuit of two diodes connected with opposite polarity, said capacitor being connected in series with said parallel circuit.
- 4. A device as claimed in claim 2 wherein said protective circuit is connected in parallel with said receiver coil.
- 5. A device as claimed in claim 1 wherein said reception device and said transmission device each operate in a frequency range of between 50 kHz and 200 kHz.
- 6. A device as claimed in claim 1 wherein said reception device comprises a reception oscillator circuit, and wherein said receiver coil forms an oscillator circuit coil for said oscillator circuit.
- 7. A device as claimed in claim 6 wherein said transmission coil has an inductance associated therewith and wherein said reception oscillator circuit has a resonant frequency, and wherein said reception device comprises a correction

capacitor to correct the resonant frequency of the reception oscillator circuit for deviation from said resonant frequency caused by said inductance of said transmission coil.

8. A device as claimed in claim 7 wherein said reception device comprises a receiver circuit and a protective circuit connected betweens said receiver circuit and said reception coil to separate said receiver circuit from said receiver coil, said protective circuit comprising said correction capacitor and a parallel circuit of two diodes connected with opposite polarity, said correction capacitor being connected in series with said parallel circuit.